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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/751,844	01/02/2001	Yong-jun Kim	Q62175	9284
	590 12/19/2002			
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMINER	
WASHINGTON, DC 20037-3202		NORRIS, JEREMY C		
			ART UNIT	PAPER NUMBER
			2827	
			DATE MAILED: 12/19/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

<i>I</i>	Application No.	Applicant(s)			
*	09/751,844	KIM ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jeremy C. Norris	2827			
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet w	rith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days of the Institute of the period for reply specified above, the maximum statutory of the period for reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). Status	ION. CFR 1.136(a). In no event, however, may a ion. s, a reply within the statutory minimum of thin period will apply and will expire SIX (6) MOI to the cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication.			
1) Responsive to communication(s) filed or	n <u>01 October 2002</u> .	· ·			
2a)⊠ This action is FINAL . 2b)□	This action is non-final.				
Since this application is in condition for a closed in accordance with the practice u Disposition of Claims	allowance except for formal ma inder <i>Ex parte Quayle</i> , 1935 C.	tters, prosecution as to the merits is D. 11, 453 O.G. 213.			
4)⊠ Claim(s) <u>2,3,6-9 and 12-23</u> is/are pendin	g in the application.				
4a) Of the above claim(s) <u>12-21</u> is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>6-9 and 23</u> is/are allowed.					
6)⊠ Claim(s) <u>2,3 and 22</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction a Application Papers	and/or election requirement.				
9)☐ The specification is objected to by the Exa	miner.				
10)⊠ The drawing(s) filed on <u>02 January 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13)⊠ Acknowledgment is made of a claim for fo	oreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
a)⊠ All b)⊡ Some * c)⊡ None of:					
 Certified copies of the priority docur 	ments have been received.				
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the application from the Internationation from the attached detailed Office action for a second control of the action for a second control of the	priority documents have been al Bureau (PCT Rule 17.2(a)).	received in this National Stage			
14)☐ Acknowledgment is made of a claim for dor					
a) ☐ The translation of the foreign language 15)☐ Acknowledgment is made of a claim for dor	e provisional application has be	een received.			
Attachment(s)	, , , , , , , , , , , , , , , , , , , ,	33 3			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-9483) Information Disclosure Statement(s) (PTO-1449) Paper No.	8) 5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)			

U.S. Patent and Trademark Olive PTO-326 (Rev. 04-01)



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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 2, 3, and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by US 6,423,907, granted to Haba et al. (hereafter Haba).

Haba discloses, referring to figure 16, a circuit board comprising, a dielectric substrate (322) a grounding surface (327) formed on one surface of the dielectric substrate, and transmission lines (324, only one shown, a plurality referred to) formed on one surface of the dielectric substrate, wherein a portion of each of the lines is isolated from the upper surface of the substrate to reduce effective permittivity between the lines and the grounding surface and reduce dielectric loss, and further comprising a plurality of dielectric supporters (341) for supporting the transmission lines, between the substrates and each of the lines in order to isolate the lines a predetermined interval apart from the upper surface of the substrate [claim 2], further comprising a pad (330) at one end of each of the lines [claim 3], wherein each of the plurality of dielectric

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supporters is formed of a polymer to reduce electrical loss (see col. 11, lines 20-50) [claim 22].

Response to Arguments

Applicant's arguments with respect to claims 2, 3, and 22 have been considered but are most in view of the new ground(s) of rejection.

Allowable Subject Matter

Claims 6-8, 9 and 23 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: Claims 6 and 9 state the limitation "a cap which covers the transmission lines, one end of the cap being grounded to the grounding surface". Although caps, covering transmission lines and being grounded to a common ground is known in the art, one skilled in the art would not be motivated to provide such a cap on the invention of Haba as it is a critical feature of that invention that the lines be uncovered to allow for inspection and manipulation of the same. Therefore, it is deemed that this limitation, in conjunction with the other claimed limitations was neither found to be disclosed in, nor suggested by the prior art.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 5,665,525

Pienimaa,

US 5,677,515

Selk et al..

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Applicant's amendment, specifically the addition of the limitation that the spacers be dielectric, necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy C. Norris whose telephone number is 703-306-5737. The examiner can normally be reached on Mon.-Th., 9AM - 6:30 PM and alt. Fri. 9AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-0725 for regular communications and 703-308-0725 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

JCSN December 13, 2002

ILL W. Colan 12-17-0 ALBERTW. PALADINI PRIMARY EXAMINED